

The elastic semi-space consolidation under the normal load on a square area

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Abstract

© 2016, Allerton Press, Inc. We investigate the elastic saturated semi-space consolidation under the uniform normal load on a square area. The analytical forms for the fluid pressure and the semi-space surface settlement are found by the solutions to the Dirichlet problem for the Laplace equation and the first boundary-value problem for the heat equation.

<http://dx.doi.org/10.3103/S1066369X16100108>

Keywords

consolidation, elastic semi-space, load, pressure, settlement